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Computer Science & IT (CS



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COMPUTER NETWORKS-1 (GATE 2023) - REPORTS

OVERALL ANALYSIS COMPARISON REPORT ALL(17) CORRECT(9) INCORRECT(8) SKIPPED(0) Q. 1 Which of following is true regarding domain separators? A By default, hub is collision domain separator as well as broadcast domain separator. By default, router is collision domain separator as well as broadcast domain separator. Your answer is Correct Solution: Router is three layer switch. It contains two broadcast. One is limited broadcast address and the other is direct broadcast address.

So if you want to broadcast only in LAN, it uses limited broadcast address (255.255.255.255). If you want to broadcast on other network, it uses direct broadcast address. So it will act as both collision domain separator as well as broadcast domain separator. By default, bridge is collision domain separator as well as broadcast domain separator. None of these QUESTION ANALYTICS Solution Video O Have any Doubt? Q. 2 Which of following is true in OSI or TCP/IP model network? Packet encapsulate frame. Your answer is IN-CORRECT B Bridge is two layer switch so it can be placed in higher layer like network layer. Router is three layer switch so it can be placed in lower layer like data link layer. **Correct Option** Solution: The lower end layer device cannot work at higher end layer as per rules of networking model. Since router is used for connecting different networks in network layer, it can also in data link layer for connecting LANs. None of these QUESTION ANALYTICS Q. 3 Which of following is true in sliding window protocols of data link layer? A When the receiver window size is 1, then it accepts out of order frames. When the receiver window size is indicating it accepts out of order frames, then Internally it accepts in order frames also. Solution: (b) In case of selective repeat ARO, receiver window size is more than 1. That means it can accept out of frames. For example if receiver window is pointed to 0, 1, 2, 3 then any out of order like 3, 0, 2, 1 are accepted. And if the frames came in same order also like 0, 1, 2, 3 are also accepted. When the retransmissions of data is more because of noisy channels, Go-back-N ARQ protocol is preferred for increasing utilization. D None of these





